

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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APPLICANT : KANEBO LTD;

INVENTOR : NONAKA TOYOICHI;

INT.CL. : D06M 13/08 C09K 21/12 D03D 15/12 D06M 13/292

TITLE : FLAMEPROOF PROCESSING AGENT FOR POLYLACTIC ACID FIBER AND METHOD  
FOR FLAMEPROOF PROCESSING OF POLYLACTIC ACID FIBER STRUCTURE

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a flameproof processing agent for polylactic acid fibers capable of carrying out flameproof processing of the biodegradable polylactic acid fibers while retaining the strength of the fibers.

SOLUTION: This flameproof processing agent for the polylactic acid fibers comprises both an alicyclic bromine compound and a phosphoric ester-based compound.

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XP-002395013

(C) WPI / DERWENT

AN - 1978-90296A [50]

PR - JP19770042818 19770413

TI - Chelate compounds contg. phosphorus - useful as additives in prodn. of polyester

IW - CHELATE COMPOUND CONTAIN PHOSPHORUS USEFUL ADDITIVE PRODUCE POLYESTER

PA - (TOYM ) TOYOBO KK

PN - JP53127484 A 19781107 DW197850 000pp

ORD - 1978-11-07

IC - C07F9/38 ; C08G63/38

FS - CPI

DC - A23 A60 E11

AB - JP53127484 Novel chelate cpds. contg. phosphorus are of formula (I), M is an element belonging to GP. Ib, IIa, IIb, IIIa, IIIb, IVa, IVb, Vb, VIb, VIIb, VIII or a rare earth element; (a) and (b) are an atom, molecule or residue gp., such as O atom, halogen atom, water molecule, OH, organic carboxylic acid residue, acetylacetonate, alkoxide or a gp. of formula (II): p and q are 0 or 1, and x is  $\geq 2$ ; X1 and X2 are divalent gp. of formula (III) or (IV). At least one of them is the former, and R1 and R2 are 1-10C hydrocarbon residues or halogen; R3 and R4 are 1-12C hydrocarbon residues; and n1 and n2 are 0-4.

- Used as catalyst, coating, agent, reinforcing agent, flame-retardant, stabiliser, colouring agent or an additive for any other purpose, in the prodn. of polyester.